

Projector Sales Manual



PT-F200NT PT-F200

Permanent-Installation Projectors

Panasonic ideas for life

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PT-F200

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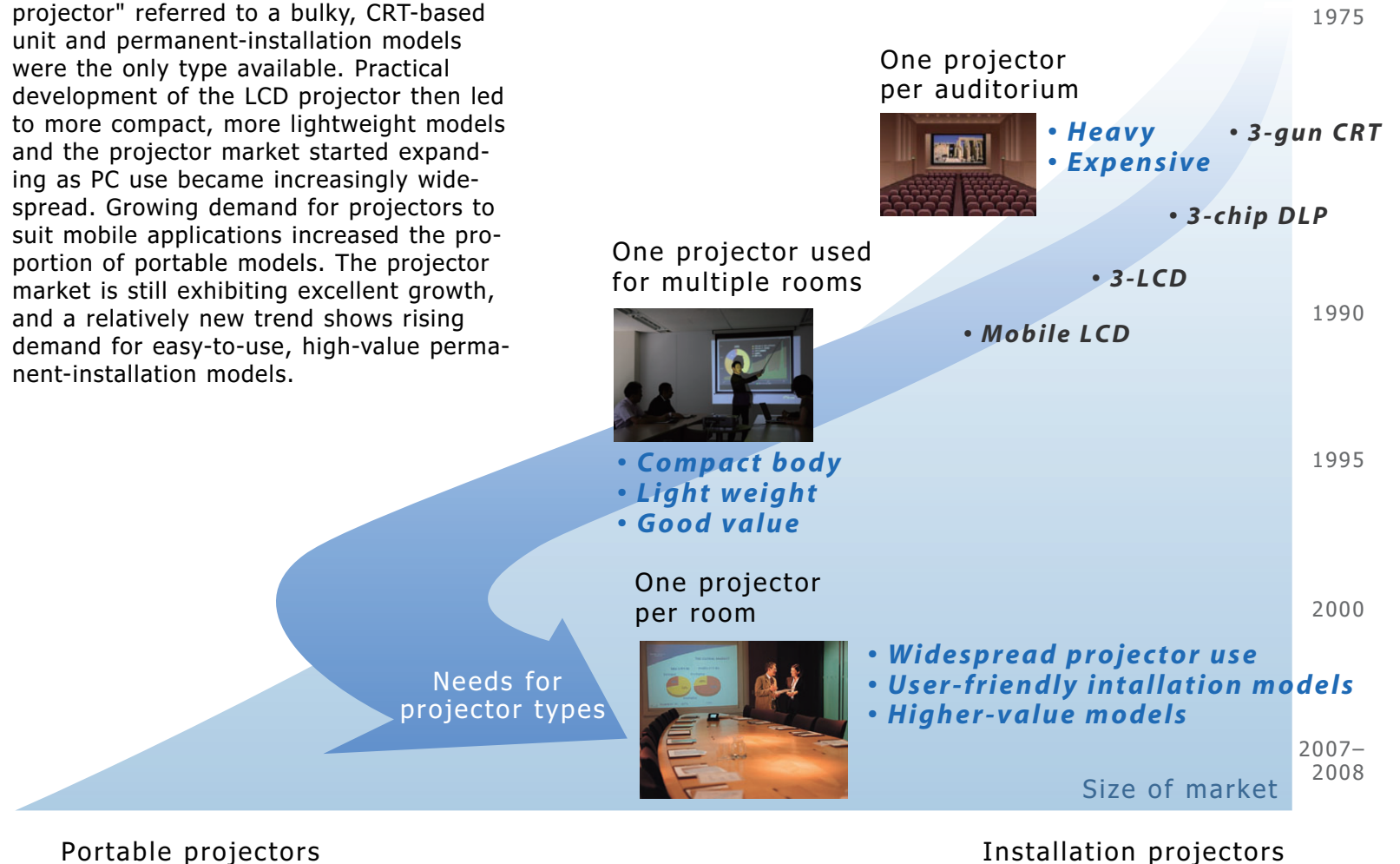
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Changes in Installation Projector Needs

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About 30 years ago, the term "video/data projector" referred to a bulky, CRT-based unit and permanent-installation models were the only type available. Practical development of the LCD projector then led to more compact, more lightweight models and the projector market started expanding as PC use became increasingly widespread. Growing demand for projectors to suit mobile applications increased the proportion of portable models. The projector market is still exhibiting excellent growth, and a relatively new trend shows rising demand for easy-to-use, high-value permanent-installation models.



Permanent-Installation Advantages

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The reason why end users are expressing the need for permanent-installation projectors is that new models offer the following advantages over mobile projectors.

Less hassle before the presentation

The preparation steps shown below are not required.

- Setting up the projector and screen
- An extension cord for the power outlet
- Zoom and focus adjustments
- Connecting cables to projector terminals



Quick finishing up after the presentation

The operating steps shown below are not required.

- Disconnecting terminals
- Waiting for the fan to stop
- Packing the equipment into bags
- Returning the equipment to its original location

During the presentation

Less annoyance for the audience

- Lower fan noise because the projector can be placed farther from the audience
- Hot-air exhaust does not reach the audience

Security

Less possibility of theft

Ideal Conditions for Permanent-Installation Projectors

- A projector that is specially designed for ceiling mounting should be selected for ceiling use.
- The projector should be easy to maintain.
- The projector should have no placement restrictions (with an appropriate lens and wireless connection).
- The projector should have full interface and control compatibility (allowing direct use with existing cables and systems).
- The projector should require little or no construction work for installation.

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F200 Series: Introductory Models Designed for Permanent Installation

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The entry-level market for permanent-installation projectors strongly demands easy installation and brightness of 3,000 lumens or higher. Portable models (like the LB Series) were previously being used for permanent installation, but the introduction of the F200 Series, which is designed specifically for permanent installation, more precisely meets the needs of this market.

Target Market/Market Needs

- **Introductory installation use**
- **Small/medium-sized classrooms and meeting rooms**
- **Screen size: 100 to 120" (diagonal)**

- Easy installation
- Brightness of 3,000 lumens or more



- **Indoor mobile use and desktop use**
- **Small/medium-sized classrooms and meeting rooms**
- **Screen size: 80 to 100" (diagonal)**

- Ease of use
- Universal design (UD)



- **Outdoor mobile use and desktop use**
- **Small/medium-sized classrooms and meeting rooms**
- **Screen size: 60 to 80" (diagonal)**

- Compact and lightweight design
- Quick response
- Toughness



Products

PT-F200 Series



PT-LB Series



PT-P1SD



Bringing a Projector to Every Room

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The PT-F200 Series was developed by Panasonic as an original-concept series that responds to market requests for permanent-installation projectors with a simple, easy-to-use design.



Based on the concept of "one projector per room," Panasonic set out to create projectors that satisfy the following conditions:

- Minimal time and effort required for installation
- Very little need for maintenance
- Easy enough for anybody to use

For example, we developed the Auto Rolling Filter (ARF), which minimizes brightness degradation by keeping the air inside the cabinet clean. This allows the projector to maintain its high brightness for a longer period of time. We also sought a new, futuristic form of permanent-installation projectors by adding a 2x zoom lens and easy-to-use wireless/wired LAN function for greater flexibility in installation. Because of these and other features, we truly feel that the PT-F200 Series should be on the top of your list when recommending a permanent-installation projector to your customers.

The Advanced Features Behind This No. 1 Recommendation

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Click the item for a more detailed description.

- Auto Rolling Filter (ARF) and anti-dust design
- Panasonic's original lamp drive system for optimal lamp performance and a 5,000-hour* lamp replacement cycle
- Daylight View 4 enhances detail, depth, brightness and contrast
- Easy wireless projection with multiple PC connection
- Mac compatibility of the supplied Wireless Manager ME 4.5
- H/V lens shift and 2x zoom for flexible installation
- Simple installation on a shelf
- Wired LAN: Web browser control/monitoring, e-mail message alert
- PJLink™ compatibility
- Direct Power Off
- Easy lamp replacement from the rear
- Abundant connection terminals
- Easy-to-use remote control with laser pointer
- Made in Japan

F200NT	F200
✓	✓
✓	✓
✓	✓
✓	
✓	
✓	✓
✓	✓
✓	
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓

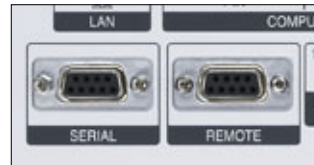
* The value given above is a maximum value calculated for a typical use of turning the lamp on for 3.5 hours then off for 0.5 hour. If the lamp is turned on and off more frequently, or if it is left on for longer periods of time, the lamp replacement cycle will be shorter.

Advantages for Dealers and Contractors

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- 2x zoom and lens shift help eliminate unnecessary additional work
- RS-232C emulation simplifies replacement of older Panasonic models



- Long-lasting brightness with ARF and the new lamp drive system
- Original, easy-to-use Wireless Manager ME 4.5 software is included.



Minimal cost and time to install

In both new installations and replacements, the procedure is highly efficient. No wasted cost or effort.

Great sales opportunity

You can look forward to higher rate of success in sales contracts because you can meet the needs of more customers.

Less possibility of customer complaints or problems

Because brightness is maintained longer, there will be fewer complaints or problem calls to deal with. There should also be fewer calls about wireless connection problems because set-up steps have been reduced and simplified so the wireless functions can be used by anyone.

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The F200 Series Meets the Needs of Both First-Time Uses and Replacements

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It's effective to tailor the points emphasizing F200 Series advantages to the user, depending on whether the projector is a newly added device or a replacement for a previous one. In any case, dealers and contractors will be able to appeal strongly with F200 advantages to either type of customers.

For customers installing their **first** projectors

For customers **replacing** old projectors

• Long-Lasting Brightness

1. **Wide-screen projection and wireless connection**

- New standards: Wide-screen PC and IEEE 802.11b/g

2. **Low-cost installation**

- Simple shelf-type installation
- Less risks for dealers

3. **Easy operation**

- Remote control with laser pointer

4. **Easy maintenance**

- A 5,000-hour lamp replacement cycle
- Easy lamp replacement

1. **Smooth replacement**

- 2x zoom and wide-range lens shift
- Enables use of the **same** ceiling mount pole

2. **Abundant terminals**

- Includes almost all common interfaces
- Allows use of the **same** cables as previous systems

3. **No hassles of reprogramming**

- RS-232C emulation
- Allows to use the **same** programs

4. **Wireless connection**

- Additional PC input capability with no extra cost

Feature Comparisons

PT-F200NT
PT-F200

Features at a Glance

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Manufacturer	Panasonic		Epson	NEC	Hitachi
MODEL	PT-F200NT	PT-F200	EMP-6100	NP1000	CP-X608
Panel	0.7" LCD x 3	0.7" LCD x 3	0.8" LCD x 3	0.8" LCD x 3	0.8" LCD x 3
Resolution	1,024 x 768	1,024 x 768	1,024 x 768	1,024 x 768	1,024 x 768
Brightness	3,500 lm & long-lasting brightness	3,500 lm & long-lasting brightness	3,500 lm	3,500 lm	4,000 lm
Daylight View 4	Yes	Yes	No	No	No
INSTALLATION					
Lens	2.0x	2.0x	1.6x	1.35x	1.2x
Optical axis	H/V shift	H/V shift	Fixed	H/V shift	H/V shift
Weight	6.2 kg/13.7 lbs	6.2 kg/13.7 lbs	7.0 kg/15.4 lbs	7.3 kg/16.1 lbs	7.1 kg/16.1 lbs
Noise	33 dB	33 dB	39 dB (high mode)	35 dB (high mode)	35 dB (high mode)
RELIABILITY					
Anti-dust cabinet	Yes	Yes	Yes	No	No
Lamp replacement cycle	5,000 hrs*	5,000 hrs*	2,500 hrs (high mode)	2,000 hrs (high mode)	2,000 hrs (high mode)
ARF	Yes	Yes	No	No	No
SYSTEM FUNCTIONS					
Direct power off	Yes	Yes	Yes	Yes	Yes
Wireless	Yes	No	No	Yes	Yes
LAN	Yes	No	Yes	Yes	Yes
Component video input	Yes (RCA pin x 3)	Yes (RCA pin x 3)	(Mini D-sub 15-pin)	Yes (RCA pin x 3)	Yes (RCA pin x 3)

* The value given above is a maximum value calculated for a typical use of turning the lamp on for 3.5 hours then off for 0.5 hour. If the lamp is turned on and off more frequently, or if it is left on for longer periods of time, the lamp replacement cycle will be shorter.

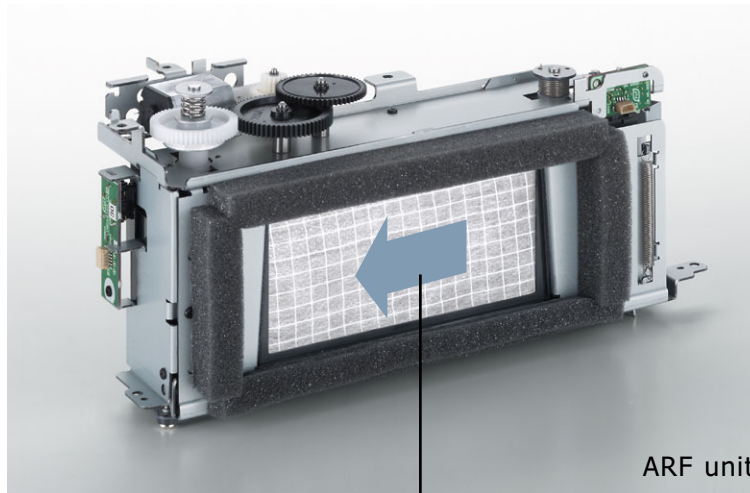
Auto Rolling Filter (ARF) Keeps the Air Inside the Projector Clean

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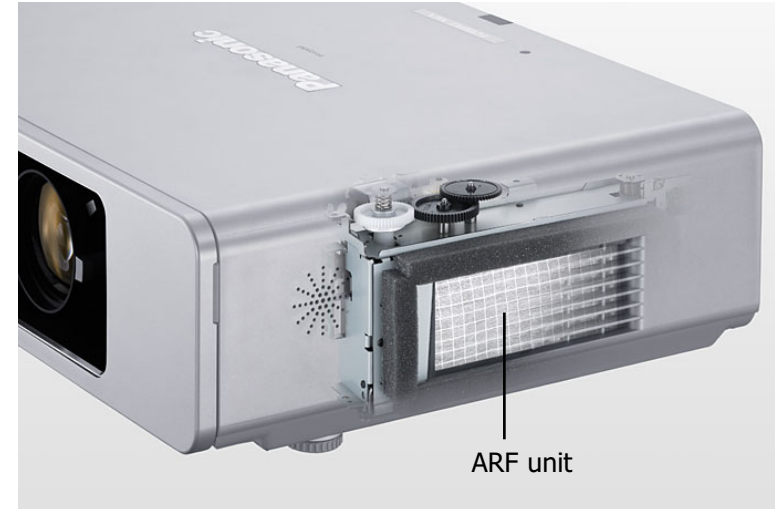


The Micro Cut Filter, which is a high-efficiency electrostatic filter with superior dust-collecting performance, combines with Panasonic's original Auto Rolling Filter and anti-dust design to minimize brightness loss due to dust accumulation.

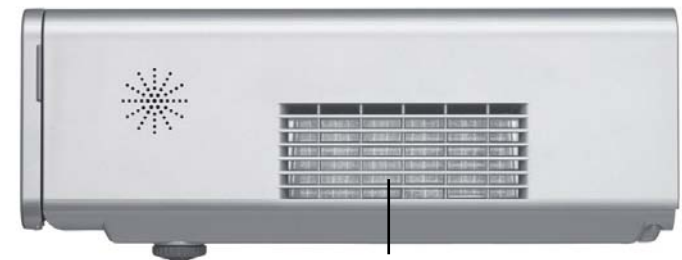


ARF unit

The Auto Rolling Filter automatically winds the used section into the casing and exposes a fresh section of filter. This allows peak performance to be maintained. The winding operation is repeated at preset time intervals and whenever a sensor detects clogging.



ARF unit



Air intake on the side

Micro Cut Filter—A High-Efficiency Electrostatic Filter

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The ARF in the air intake section uses a Micro Cut Filter, a high-efficiency electrostatic filter, to trap dust particles that are 1 micron or larger. By capturing approximately seven times as much dust as our previous filters, it guards against optical blocks and reduces the penetration of dust into the interior to provide stable operation by preventing drops in brightness.

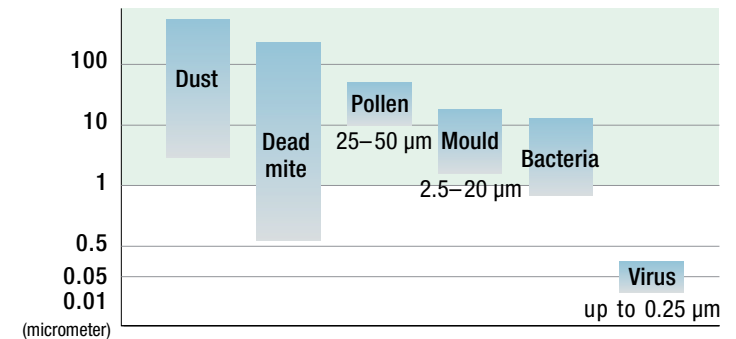


The ET-RFF100 replacement filter unit is available as an optional item.



The Micro Cut Filter uses ions to attract and collect dust particles.

Size of particles

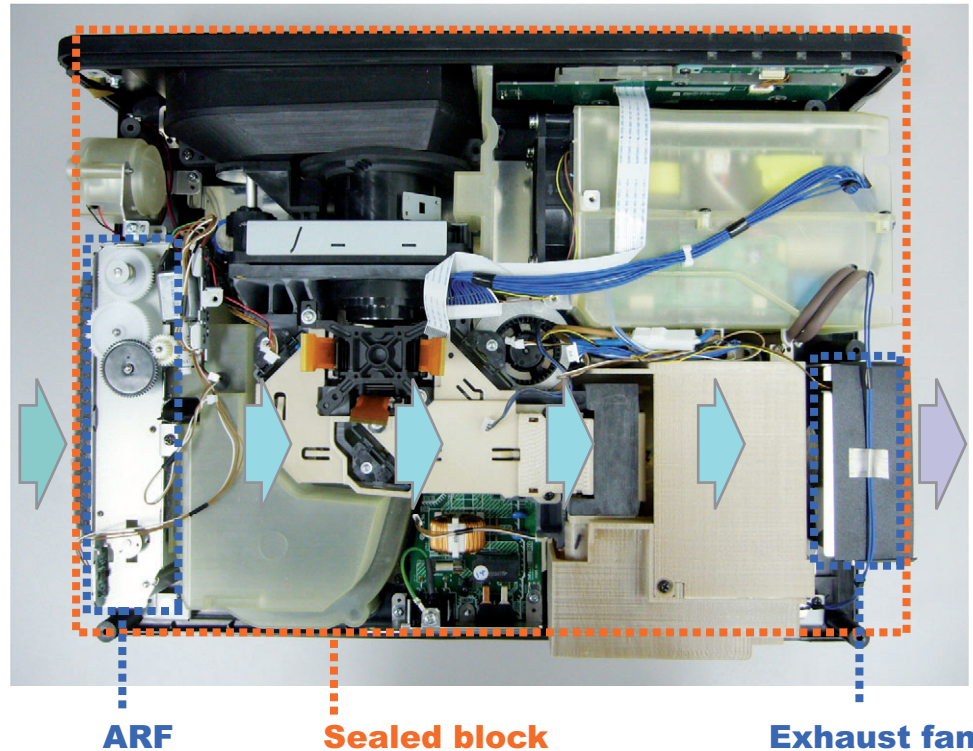


Anti-Dust Cabinet Design

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To develop the anti-dust cabinet, Panasonic totally re-engineered the airflow path, from intake to exhaust, to create a cabinet that hermetically seals off the projector interior. This design and the Auto Rolling Filter team up to keep the air inside the projector dust-free at all times.



The front panel covers the lens to keep it free of dust, and conceals the controls to prevent accidental mis-operation. It can be opened for easy access to controls even when the projector is installed on the ceiling.

Original Lamp Drive System

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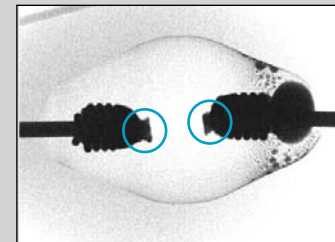
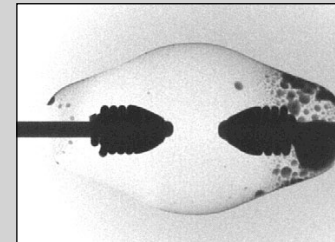
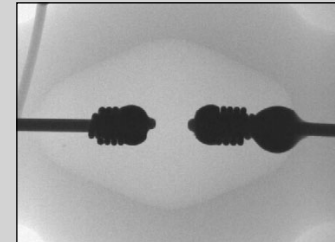
Panasonic employs a number of new technologies – including an original lamp drive system – that help maintain optimal lamp performance for longer-lasting brightness. This has resulted in a 5,000-hour* lamp replacement cycle. The new system suppresses the causes for lamp degradation, such as electrode wear and blackening or whitening of the inner walls of the bulb, to minimize brightness loss.



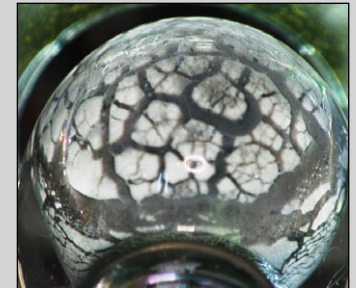
New, high-precision lamp system

* The value given above does not imply a guaranteed amount of time. The value may vary considerably depending on usage conditions.

Electrodes wear



Blackening



Whitening



Daylight View 4

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The PT-F200 series feature Panasonic's Daylight View 4 technology. Sharp edges are achieved with the new "Edge Enhancer Control" and "Gamma Curve Control." Remarkable detail is provided and perceived brightness and contrast are

enhanced*, so images appear crisp, vivid, 3-dimensional and easy to see even in brightly lit rooms. Daylight View 4 also includes a built-in ambient light sensor that automatically detects room brightness and adjusts operation accordingly.

* There is no actual change in the rated brightness or contrast ratio.



Simulated image with Daylight View 4 turned off:
Overall contrast appears lower, and images in dark areas are blackened.



Simulated image with Daylight View 4 turned on:
Detail, depth, brightness and contrast over the entire image are enhanced.

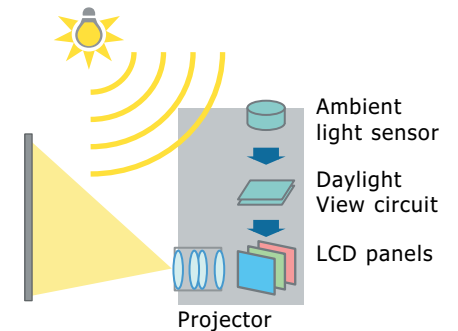


Daylight View 4: Ambient Light Sensor

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The top panel of the unit is equipped with an ambient light sensor (ALS). The ALS detects changes in the ambient light intensity and adjusts operation according to the environment.



Evolution of Daylight View Technology



Daylight View improves color perception.



Daylight View 2 improves color perception and brightness.



Daylight View 3 improves color perception, brightness and contrast.



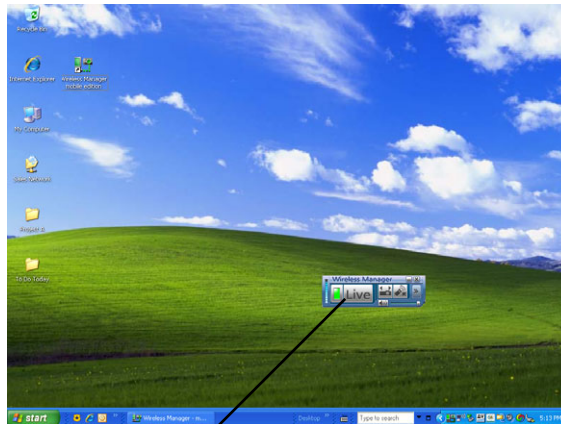
Daylight View 4 enhances remarkable detail and lifelike depth.

Easy Wireless Projection— The Seventh Generation Wireless Projectors

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Panasonic has a long history of applying leading-edge technologies to further enhance the ease and convenience of wireless projection. The PT-F200NT, which marks the seventh generation of Panasonic wireless projectors, continues this trend with the addition of Wireless manager ME 4.5 communications software. Crystallizing Panasonic's accumulated experience and expertise, this new software takes a major step forward in simplifying set-up, stabilizing the wireless connection, and applying Universal Design throughout.

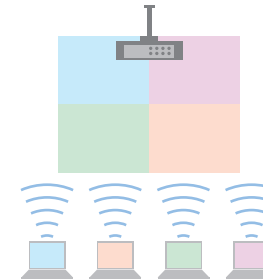


The easy-to-use Wireless Manager ME 4.5 comes supplied with each projector.

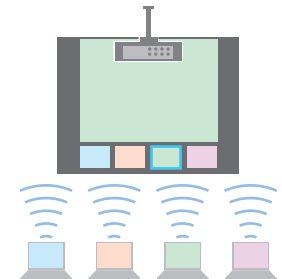
Improved connectivity

- Easy setup
- Stable wireless connection
- Universal design

Four-window style



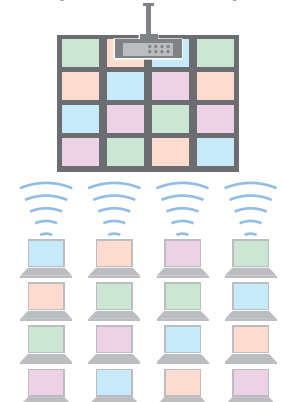
Index style (Four thumbnails)



A Wide Variety of Wireless Functions

The PT-F200NT provides a host of convenient wireless functions, including Wireless Prompter (Secondary Display Transmission), selective area transmission and a 16-window index style that lets you project images from up to 16 PCs at the same time. Wireless transmission is possible from one PC to a maximum of eight projectors at a time.

Extended index style (16 thumbnails)



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Wireless Manager ME 4.5 Enables Easy Setup

Panasonic ideas for life

The set-up procedure steps have been reduced and simplified to allow anyone to use the wireless projection functions. Simply press the PC SEARCH button on the remote control to locate connectable PCs in the vicinity.

Set-up procedure

1. Activate Wireless Manager ME 4.5.
2. Input the user name and select the user icon. (This is required only when launching the Wireless Manager ME 4.5 for the first time.)
 Operation guidance will appear in the Projector Search window.
3. Use the remote control to turn on the projector power.
4. Press the "COMPUTER SEARCH" button to find connectable PCs.
 To enhance security while searching for PCs, the projector lowers its signal transmission strength to limit the distance that its electrical waves can reach.
5. Select the PC that you want to connect to from the displayed list.
6. When the connection is established, the launcher (Wireless Manager control panel) appears.



Projector Search window with operation guidance



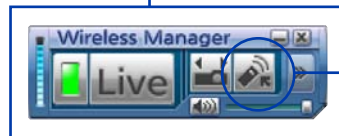
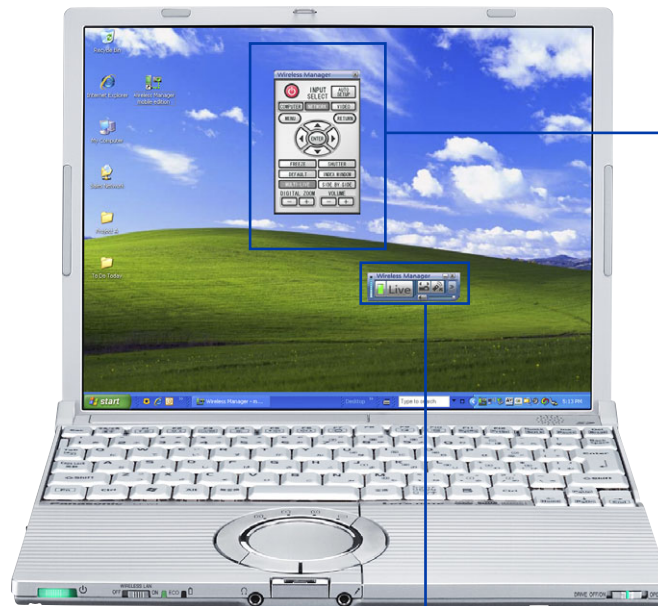
Virtual Remote Control

PT-F200NT
PT-F200

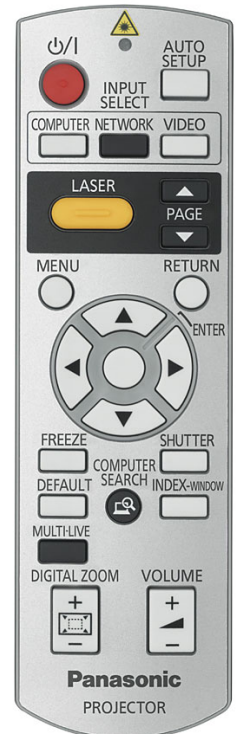
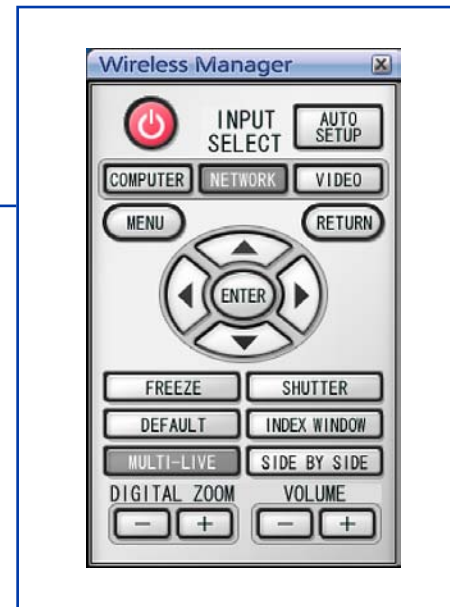
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The same graphics used on the projector's remote control can be displayed on the PC screen. This makes it easy to operate the projector right from the PC, without having to use the remote control.



Click the icon to activate a pop-up display of a virtual remote control on the PC desktop.



Wireless Projection: Mac Compatibility

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Wireless Manager ME 4.5, which comes bundled with the PT-F200NT, allows wireless projection (in Live mode only) from a Mac running Mac OS X (10.4 or 10.5*).

* OS X 10.5 (Leopard): MacBook and MacBook Pro with the Intel Core 2 Duo processor only.



2x Zoom and H/V Lens Shift

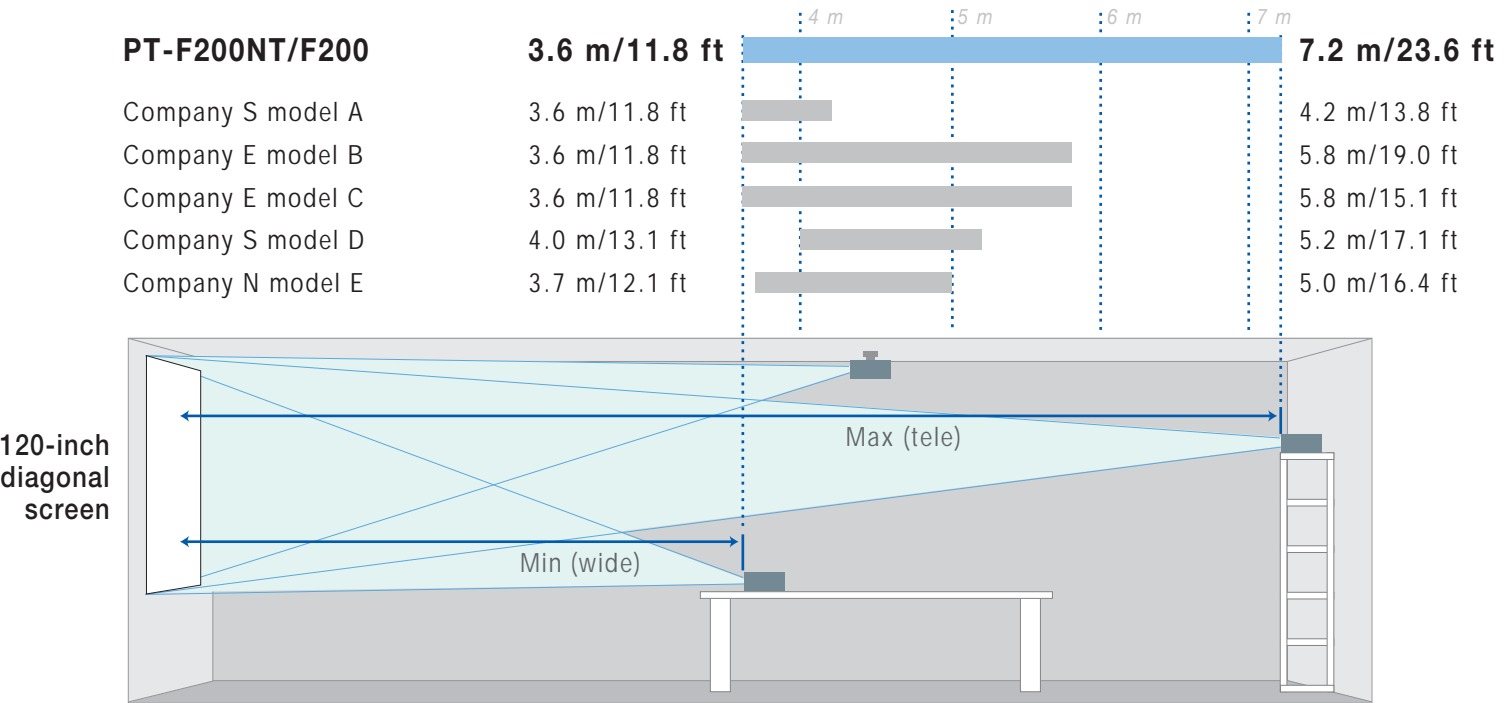
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The PT-F200NT and PT-F200 can project a 120-inch image from any distance between 3.6 m (11.8 feet) and 7.2 m (23.6 feet). In new installations, this lets you accommodate a wide range of room sizes and shapes. And when replacing existing projectors, the new 2x zoom greatly expands your installation flexibility.



Zoom Range Comparison: PT-F200 Series vs Competitors



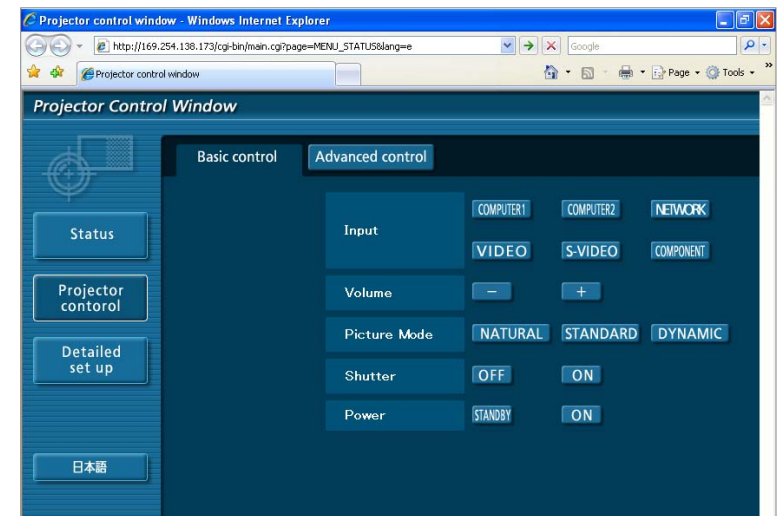
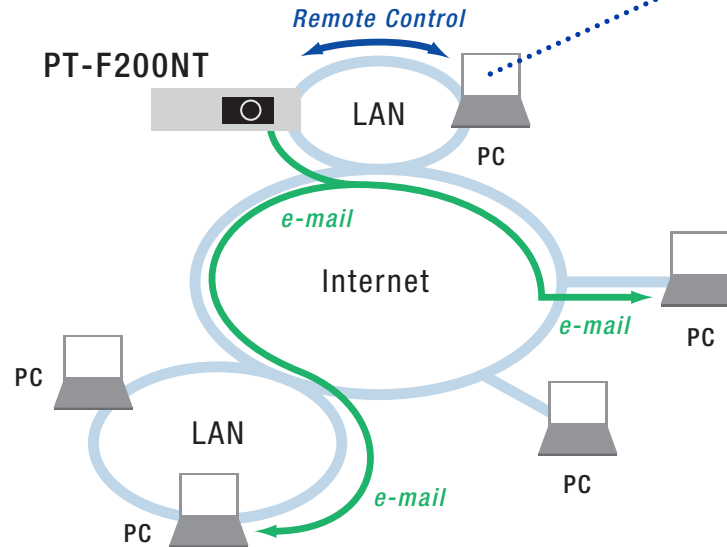
Wired LAN: Web Browser Control, Browser Monitoring, E-mail Message Alert

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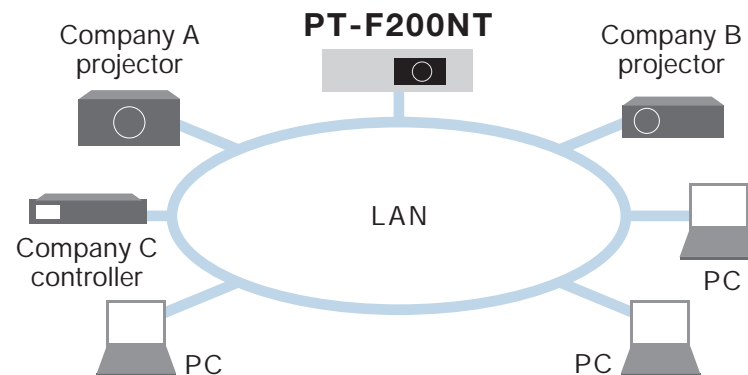
Anybody can operate the PT-F200NT by remote control or monitor its status over a LAN network, because it is all done using the computer's familiar web browser. Furthermore, the projector sends an e-mail message to notify the operator when an error has occurred, or a lamp needs to be replaced.



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The LAN terminals support PJLink class 1 connection. Control with the same specifications is also possible when used in a multi-projector system with projectors of another brand.



PT-F200NT
PT-F200

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Because the cooling fan keeps operating until the lamp is cooled, you can turn off the room's main power without waiting for the projector to cool down.



Easy Lamp Replacement

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For easier maintenance, you can replace the lamp from the rear, without having to remove the projector from the ceiling bracket.



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Designed for versatility, each projector comes equipped with a host of connection terminals. The RS232C specifications are the same as in previous Panasonic models, so replacement is quick and easy.



The PT-F200NT feature a LAN connector terminal.

Remote Control with Laser Pointer

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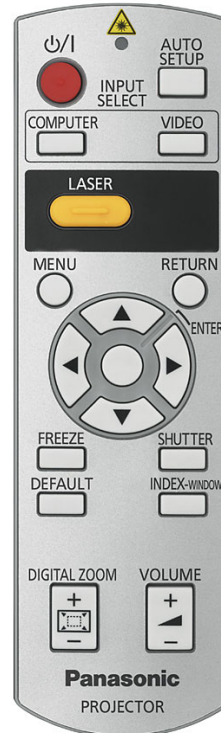
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The supplied remote control features a number of wire-less projection controls, including Microsoft® PowerPoint® page up/down capability*. The maximum operation distance has also been extended from the previous 7 meters to 15 meters in the PT-F200 Series, and the buttons are larger and easier to use.

* For the PT-F200NT only.



PT-F200NT



PT-F200



Equipped with two transmitters for an extended remote control range.

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All PT-F200 Series projectors are carefully manufactured at the Panasonic factory in Japan, under strict quality control. This is another, very important advantage of a Panasonic projector.

